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CENTRAL INTELLIGENCE  
INFORMATION REPORT

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1. In April 1951, the Russians requested Askania to design a nonmagnetic compass.\* The only further information given by the Russians was that they had heard that the Americans had developed such a compass. The designing staff of the factory believes that the compass is used in high speed aircraft, but does not know any details about it.
2. Work is still in progress on the development of a machine for balancing gyroscope rotors. In this regard the factory is currently experimenting with a plan to support one bearing of the machine on four crystals at ninety degree intervals. The resultant voltages will control automatically the sputtering of metal onto the rotor until it is balanced. Six hundred sputtering points around the shaft are envisaged.
3. Bretal (fnu), and Kranzlin (fnu) are in charge of the development of an optical pyrometer for use in the manufacture of portland cement. It is to measure the temperature inside a rotating cylinder 100 meters long and 3 meters in diameter at a point 12 meters from one end of the cylinder, which is heated to a temperature of about 1500°C.
4. The factory has received an order for 200 field magnetometers for sale to China.

\* Comment: This is possibly a sun compass for use in flights over the 50X1-HUM  
polar regions.

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